

TABLE 1. Acreage Summary, Quay County,  
Projected 2005.

BUDGET AREA.....	ARCH HURLEY CONSERVANCY DISTRICT, QUAY COUNTY
FARM SIZE.....	600 ACRES
IRRIGATION TYPE.....	SPRINKLER
NUMBER OF CROPS....	3

ACREAGE SUMMARY:	WATER USE		
	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	25.00 *	6	150
ALFALFA	200.00	24	4,800
GRAIN SORGHUM	170.00	18	3,060
ARP	0.00		
FLEX IN GRAIN SORGHUM	30.00	12	360
WHEAT	170.00	12	2,040
ARP	0.00		
FLEX IN GRAIN SORGHUM	30.00	12	360
<b>TOTAL</b>	<b>600.00</b>		<b>10,410</b>
<b>ACRE FEET PER ACRE OF WATER RIGHTS</b>			<b>1.45</b>

\* DOUBLE-CROPPED

TABLE 2. Basic cost information for the Arch Hurley Conservancy District, Quay County,  
Projected 2005.

Item		
<b>Labor Wage Rate:</b>		
Equipment operators	\$/hour	\$7.45
General & Irrigators	\$/hour	\$6.65
<b>Purchased Inputs:</b>		
<b>Fertilizer:</b>		
Nitrogen (N)	\$/pound	\$0.40
Phosphate (P205)	\$/pound	\$0.31
<b>Seed:</b>		
Alfalfa	\$/pound	\$2.88
Grain Sorghum	\$/pound	\$1.23
Wheat	\$/pound	\$0.24
Wire	\$/pound	\$0.50
<b>Canal Water</b>		
Assessment	\$/acre	\$6.00
Water	\$/acre foot	\$6.00
<b>Energy:</b>		
Diesel fuel	\$/gallon	\$2.10
Gasoline	\$/gallon	\$2.00
LP Gas	\$/gallon	\$1.70
Electricity (Farmers Elec Coop)	cents/KwHr	7.25
Employee Liability Insurance	\$/ \$1,000 wages	\$20.00
Employee Benefits	percent/wages	18.00%
Labor Downtime	percent	25.00%
<b>Financial Rates:</b>		
Operating Capital Interest Rate	percent	7.00%
Land Interest Rate	percent	7.00%
Equipment Interest Rate	percent	7.00%
Real Interest Rate	percent	3.00%
Land Taxes	\$96.00 /acre (full value)	\$0.93
Personal Property Tax Rate	- NR - R	\$/ \$1,000 (Assessed Value) \$28.95 \$21.74
<b>Supervision Factors</b>		
Field Crop-Irrigation	\$/labor hour	\$1.00
Field Crop-Equipment & General	\$/labor hour	\$0.50
Management Rate	percent	7.00%

TABLE 3. Overhead cost information for the Arch Hurley Conservancy District, Quay County,  
Projected 2005.

Item		
Electricity (Domestic & Shop)	\$215.00 per month	\$2,580
Telephone	\$115.00 per month	\$1,380
Accounting & Legal		\$1,525
Misc. Supplies & Hand Tools		\$1,430
Pickup and Auto		
miles	20,017 @ \$0.365 per mile	\$7,306
<b>Insurance</b>		
- general liability (non-employee)		\$1,710
- fire/theft		\$1,525
<b>Property Taxes</b>		
- non-planted land		\$0
- other than land & machinery		\$6,010
Building repairs and maintenance		\$1,290
Dues, fees, publications		\$405
Farmstead Equipment		\$185
<b>Total</b>		<b>\$25,346</b>
<b>Total per planted acre</b>		<b>\$42.24</b>

TABLE 4. Pumping costs and data for irrigation wells, Arch Hurley Conservancy District, Quay County, Projected 2005.

INPUT DATA

DELIVERY PSI: SPRINKLER	35	
GALLONS PER MINUTE (GPM)	700	
WORK HORSEPOWER	14	
EFFICIENCY FACTOR:		
ELECTRICITY	0.540	
LP GAS	0.154	
DIESEL	0.160	
FUEL COST PER HOUR:		
ELECTRICITY	7.25	CENTS/KwHR
LP GAS	\$1.70	\$/GAL
DIESEL	\$2.10	\$/GAL

PUMPING COSTS

ELECTRIC:		
COST PER HOUR		\$1.46
COST PER ACRE INCH		\$0.95
LP GAS:		
COST PER HOUR		\$4.40
COST PER ACRE INCH		\$2.84
DIESEL:		
COST PER HOUR		\$3.39
COST PER ACRE INCH		\$2.19

TABLE 5. Equipment summary for a 600 acre sprinkler-irrigated farm with above average management, Arch Hurley Conservancy District, Quay County, Projected 2005.

EQUIPMENT		ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS			FIXED COSTS			
ITEM & SIZE	FUEL, OIL, LUBRICANT				REPAIR	FUEL, OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HR	
TRACTOR	70 HP	303	1	\$9,473	\$3,879	\$629	\$12.79	\$2.07	\$1,152	\$167	\$4.35
TRACTOR	165 HP	424	1	\$39,492	\$7,985	\$2,284	\$18.83	\$5.39	\$5,985	\$433	\$15.14
COMBINE	95 HP	76	1	\$17,648	\$1,888	\$131	\$24.85	\$1.73	\$2,161	\$417	\$33.92
GRAIN HEAD	18 FT	76	1	\$13,290		\$35		\$0.46	\$1,519	\$110	\$21.44
SWATHER	16 FT SP	88	1	\$21,350	\$692	\$127	\$7.86	\$1.45	\$3,621	\$349	\$45.11
TRUCK	2 TON	76	1	\$22,000	\$1,014	\$468	\$13.34	\$6.16	\$4,400	\$212	\$60.69
DISC	14 FT	122	1	\$3,000		\$455		\$3.72	\$400	\$29	\$3.50
ROD WEEDER	23 FT	18	1	\$625		\$14		\$0.78	\$83	\$6	\$4.86
CULTIVATOR	6 ROW	30	1	\$2,500		\$93		\$3.10	\$333	\$24	\$11.96
DRILL	13 FT	35	1	\$2,150		\$36		\$1.03	\$430	\$21	\$12.84
PLANTER	6 ROW	39	1	\$4,250		\$80		\$2.04	\$850	\$41	\$22.79
FLOAT	12 FT	89	1	\$500		\$1		\$0.02	\$53	\$4	\$0.64
SPRAYER TRACTOR M	16 FT	39	1	\$1,400		\$26		\$0.67	\$187	\$14	\$5.12
FERT SPREADER		31	1	\$2,300		\$29		\$0.92	\$307	\$22	\$10.52
BALER PTO	2 WIRE	168	1	\$1,600		\$26		\$0.15	\$385	\$37	\$2.51
SWEE	23 FT	34	1	\$4,350		\$183		\$5.39	\$580	\$42	\$18.29
BALE WAGON, PTO		160	1	\$1,500		\$205		\$1.28	\$800	\$77	\$5.48
CENTER PIVOT SPRINKLER		7,196	1	\$15,000		\$0		\$0.00	\$2,000	\$145	\$0.30
ELECTRIC BOOSTER PUMP		7,196	1	\$2,500		\$0		\$0.00	\$333	\$24	\$0.05
				\$164,928	\$15,458	\$4,823			\$25,579	\$2,174	

TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for a 600 acre farm, Arch Hurley Conservancy District, Quay County, Projected 2005.  
Planting dates: August 1 - September 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS						TOTAL
<b>PURCHASE INPUTS</b>									
SEED	\$2.88	16 LBS	\$46.08						\$46.08
OAT SEED	\$0.23	40 LBS	\$9.20						\$9.20
NITROGEN (N)	\$0.40	30 LBS	\$12.00						\$12.00
PHOSPHATE (P205)	\$0.31	60 LBS	\$18.60						\$18.60
CANAL WATER	\$6.00	6 AC. IN.	\$3.00						\$3.00
SUBTOTAL			\$88.88						\$88.88
<b>PREHARVEST OPERATIONS</b>									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
CHISEL	145 HP	0.08 HR		\$0.60	\$1.51	\$0.86	\$2.67	\$5.64	
DISC	145 HP	0.14 HR		\$1.04	\$2.64	\$1.27	\$2.61	\$7.56	
FLOAT	145 HP	0.19 HR		\$1.42	\$3.58	\$1.03	\$3.00	\$9.02	
FERT SPREADER	70 HP	0.05 HR		\$0.37	\$0.64	\$0.15	\$0.74	\$1.91	
DRILL	70 HP	0.18 HR		\$1.34	\$2.30	\$0.56	\$3.09	\$7.30	
IRRIGATE (3X)		0.30 HR		\$2.00	\$5.67	\$0.00	\$1.35	\$9.02	
SUBTOTAL		0.94 HR	\$0.00	\$6.76	\$16.33	\$3.87	\$13.47	\$40.44	
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		0.24 HR		\$1.75					\$1.75
EMPLOYEE BENEFITS				\$1.22					\$1.22
INSURANCE			\$0.02					\$0.02	
SUPERVISION AND MANAGEMENT				\$9.64					\$9.64
SUBTOTAL		0.24 HR	\$0.02	\$12.61					\$12.63
<b>TOTAL OPERATING EXPENSES</b>		1.18 HR	\$88.90	\$19.37	\$16.33	\$3.87	\$13.47	\$141.95	

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for a 600 acre farm with above average management, Arch Hurley Conservancy District, Quay County, Projected 2005.  
Harvesting dates: May 25 - October 15

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
ALFALFA HAY	\$130.00	4.50 TONS (STACKED)						\$585.00
GRAZING	\$48.00	1.00 ACRE						\$48.00
<b>TOTAL</b>								<b>\$633.00</b>
<b>PURCHASED INPUTS</b>								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
PHOSPHATE (P205)	\$0.31	60 LBS	\$18.60					\$18.60
WIRE	\$0.50	39 LBS	\$19.28					\$19.28
ESTABLISHMENT: Principal		8 YEARS					\$17.74	\$17.74
: Interest							\$5.46	\$5.46
CANAL WATER: Assessment	\$6.00	1 ACRE	\$6.00					\$6.00
Water	\$6.00	24 AC. IN.	\$12.00					\$12.00
<b>SUBTOTAL</b>			<b>\$55.88</b>				<b>\$23.20</b>	<b>\$79.08</b>
<b>PREHARVEST OPERATIONS</b>								
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERT SPREADER	70 HP	0.05 HR		\$0.37	\$0.64	\$0.15	\$0.74	\$1.91
IRRIGATE		1.20 HR		\$7.98	\$22.69	\$0.00	\$5.40	\$36.07
<b>SUBTOTAL</b>		<b>1.25 HR</b>		<b>\$8.35</b>	<b>\$23.33</b>	<b>\$0.15</b>	<b>\$6.14</b>	<b>\$37.97</b>
<b>HARVEST OPERATIONS</b>								
SWATHER (4X)	16 FT	0.44 HR		\$3.28	\$3.46	\$0.64	\$19.85	\$27.22
BALER (4X)	70 HP	0.84 HR		\$6.26	\$10.74	\$1.87	\$5.76	\$24.63
BALE WAGON, PTO (4X)	145 HP	0.80 HR		\$5.96	\$15.06	\$5.33	\$16.49	\$42.85
<b>SUBTOTAL</b>		<b>2.08 HR</b>		<b>\$0.00</b>	<b>\$15.50</b>	<b>\$29.27</b>	<b>\$7.84</b>	<b>\$94.71</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.83 HR		\$6.20				\$6.20
EMPLOYEE BENEFITS				\$5.41				\$5.41
INSURANCE			\$0.08					\$0.08
LAND TAXES							\$0.93	\$0.93
SUPERVISION AND MANAGEMENT				\$46.39				\$46.39
OTHER EXPENSES			\$42.24					\$42.24
<b>SUBTOTAL</b>		<b>0.83 HR</b>		<b>\$42.33</b>	<b>\$58.00</b>		<b>\$0.93</b>	<b>\$101.26</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>4.16 HR</b>		<b>\$98.21</b>	<b>\$81.85</b>	<b>\$52.59</b>	<b>\$7.99</b>	<b>\$313.02</b>
<b>NET OPERATING PROFIT</b>								<b>\$319.98</b>
INTEREST ON OPERATING CAPITAL		( \$36.90 @	7.00%	)				\$2.58
INTEREST ON EQUIPMENT INVESTMENT								\$29.19
<b>RETURN TO LAND AND RISK</b>								<b>\$288.21</b>

**BUDGET SUMMARY**

GROSS RETURN		\$633.00	
VARIABLE OPERATING EXPENSES	\$158.79		
RETURN OVER VARIABLE EXPENSES		\$474.21	(GROSS MARGIN)
FIXED EXPENSES	\$72.37		
NET FARM INCOME		\$401.84	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$81.85		
NET OPERATING PROFIT		\$319.98	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$31.78		
RETURN TO LAND AND RISK		\$288.21	

TABLE 8. Grain sorghum, sprinkler-irrigated, budgeted per acre costs and returns for a 600 acre farm with above average management, Arch Hurley Conservancy District, Quay Projected 2005.  
 Planting dates: May 15 - July 1  
 Harvesting dates: October 15 - December 15

ITEM	PRICE	YIELD	BASE	TOTAL
<b>GROSS RETURNS</b>				
GRAIN SORGHUM	\$3.70	50.00 CWT		\$184.82
DIRECT PAYMENT	\$0.00	50.00 CWT	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 CWT		\$0.00
GRAZING	\$48.00	1.00 ACRE		\$48.00
<b>TOTAL</b>				<b>\$232.82</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.23	7.00 LBS	\$8.61		\$8.61
NITROGEN (N)	\$0.40	80.00 LBS	\$32.00		\$32.00
PHOSPHATE (P205)	\$0.31	20.00 LBS	\$6.20		\$6.20
HERBICIDE (CUSTOM)	\$15.07	1.00 ACRE	\$15.07		\$15.07
CANAL WATER: Assessment	\$6.00	1.00 ACRE	\$6.00		\$6.00
Water	\$6.00	18.00 AC. IN.	\$9.00		\$9.00
CROP INSURANCE	\$0.22		\$0.22		\$0.22
<b>SUBTOTAL</b>			<b>\$77.09</b>		<b>\$77.09</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWEEP	145 HP	0.08 HR		\$0.60	\$1.51	\$0.86	\$2.67	\$5.64
DISC	145 HP	0.14 HR		\$1.04	\$2.64	\$1.27	\$2.61	\$7.56
FLOAT	145 HP	0.19 HR		\$1.42	\$3.58	\$1.03	\$3.00	\$9.02
DISC & SPRAY	145 HP	0.17 HR		\$1.27	\$3.20	\$1.66	\$4.04	\$10.17
FERT SPREADER	70 HP	0.05 HR		\$0.37	\$0.64	\$0.15	\$0.74	\$1.91
ROD WEED	145 HP	0.08 HR		\$0.60	\$1.51	\$0.49	\$1.60	\$4.19
PLANTER	70 HP	0.17 HR		\$1.27	\$2.17	\$0.70	\$4.61	\$8.75
CULTIVATOR	70 HP	0.13 HR		\$0.97	\$1.66	\$0.67	\$2.12	\$5.42
IRRIGATE (12X)		1.20 HR		\$7.98	\$17.02	\$0.00	\$4.05	\$29.04
<b>SUBTOTAL</b>		<b>2.21 HR</b>		<b>\$15.50</b>	<b>\$33.92</b>	<b>\$6.84</b>	<b>\$25.44</b>	<b>\$81.71</b>

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE	18 FT	0.19 HR		\$1.42	\$4.72	\$0.42	\$10.52	\$17.07
HAUL	2T	0.19 HR		\$1.42	\$2.53	\$1.17	\$11.53	\$16.65
<b>SUBTOTAL</b>		<b>0.38 HR</b>		<b>\$2.83</b>	<b>\$7.26</b>	<b>\$1.59</b>	<b>\$22.05</b>	<b>\$33.72</b>

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.65 HR		\$4.82				\$4.82
EMPLOYEE BENEFITS			\$4.17				\$4.17
INSURANCE			\$0.08				\$0.08
LAND TAXES						\$0.93	\$0.93
SUPERVISION AND MANAGEMENT			\$18.24				\$18.24
OTHER EXPENSES			\$42.24				\$42.24
<b>SUBTOTAL</b>	<b>0.65 HR</b>		<b>\$42.32</b>	<b>\$27.23</b>		<b>\$0.93</b>	<b>\$70.48</b>

TOTAL OPERATING EXPENSES 3.89 HR \$119.41 \$45.57 \$41.18 \$8.43 \$48.42 \$263.00

NET OPERATING PROFIT (\$30.18)

INTEREST ON OPERATING CAPITAL ( \$49.47 @ 7.00% ) \$3.46  
 INTEREST ON EQUIPMENT INVESTMENT \$25.91

RETURN TO LAND AND RISK (\$59.55)

BUDGET SUMMARY

GROSS RETURN		\$232.82	
VARIABLE OPERATING EXPENSES	\$169.02		
RETURN OVER VARIABLE EXPENSES		\$63.80	(GROSS MARGIN)
FIXED EXPENSES	\$48.42		
NET FARM INCOME		\$15.39	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$45.57		
NET OPERATING PROFIT		(\$30.18)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$29.37		
RETURN TO LAND AND RISK		(\$59.55)	

TABLE 9. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 600 acre farm with above average management, Arch Hurley Conservancy District, Quay County, Projected 2005.  
 Planting dates: August 15 - September 15  
 Harvesting dates: June 15 - July 10

ITEM	PRICE	YIELD	BASE	TOTAL
<b>GROSS RETURNS</b>				
WHEAT	\$3.75	20.00 BUSHEL		\$75.00
DIRECT PAYMENT	\$0.00	20.00 BUSHEL	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00			\$0.00
GRAZING	\$48.00	1.00 ACRE		\$48.00
<b>TOTAL</b>				<b>\$123.00</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.24	60.00 LBS	\$14.40		\$14.40
NITROGEN (N)	\$0.40	80.00 LBS	\$32.00		\$32.00
PHOSPHATE (P205)	\$0.31	20.00 LBS	\$6.20		\$6.20
HERBICIDE	\$15.07	1.00 ACRE	\$15.07		\$15.07
CANAL WATER: Assessment	\$6.00	1.00 ACRE	\$6.00		\$6.00
Water	\$6.00	12.00 AC. IN.	\$6.00		\$6.00
CROP INSURANCE	\$0.29		\$0.29		\$0.29
<b>SUBTOTAL</b>			<b>\$79.96</b>		<b>\$79.96</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
CHISEL	145 HP	0.08 HR		\$0.60	\$1.51	\$0.86	\$2.67	\$5.64
DISC (2X)	145 HP	0.28 HR		\$2.09	\$5.27	\$2.55	\$5.22	\$15.13
FLOAT	145 HP	0.24 HR		\$1.79	\$4.52	\$1.30	\$3.79	\$11.39
FERT SPREADER	70 HP	0.05 HR		\$0.37	\$0.64	\$0.15	\$0.74	\$1.91
DRILL	70 HP	0.18 HR		\$1.34	\$2.30	\$0.56	\$3.09	\$7.30
IRRIGATE (8X)		0.80 HR		\$5.32	\$11.34	\$0.00	\$2.70	\$19.36
<b>SUBTOTAL</b>		<b>1.63 HR</b>		<b>\$11.50</b>	<b>\$25.58</b>	<b>\$5.42</b>	<b>\$18.21</b>	<b>\$60.72</b>

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE	18 FT	0.19 HR		\$1.42	\$4.72	\$0.42	\$10.52	\$17.07
HAUL	2T	0.19 HR		\$1.42	\$2.53	\$1.17	\$11.53	\$16.65
<b>SUBTOTAL</b>		<b>0.38 HR</b>		<b>\$2.83</b>	<b>\$7.26</b>	<b>\$1.59</b>	<b>\$22.05</b>	<b>\$33.72</b>

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.50 HR		\$1.88				\$1.88
EMPLOYEE BENEFITS			\$2.15				\$2.15
INSURANCE		\$0.05				\$0.93	\$0.05
LAND TAXES							\$0.93
SUPERVISION AND MANAGEMENT			\$6.15				\$6.15
OTHER EXPENSES		\$42.24					\$42.24
<b>SUBTOTAL</b>	<b>0.50 HR</b>	<b>\$42.29</b>	<b>\$10.18</b>			<b>\$0.93</b>	<b>\$53.40</b>

<b>TOTAL OPERATING EXPENSES</b>	<b>2.51 HR</b>	<b>\$122.25</b>	<b>\$24.51</b>	<b>\$32.84</b>	<b>\$7.00</b>	<b>\$41.19</b>	<b>\$227.80</b>
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<b>NET OPERATING PROFIT</b>							<b>(\$104.80)</b>
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INTEREST ON OPERATING CAPITAL	(	\$48.47	@	7.00%	)		\$3.39
INTEREST ON EQUIPMENT INVESTMENT							\$22.39

<b>RETURN TO LAND AND RISK</b>							<b>(\$130.58)</b>
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**BUDGET SUMMARY**

GROSS RETURN	\$123.00		
VARIABLE OPERATING EXPENSES	\$162.10		
RETURN OVER VARIABLE EXPENSES		(\$39.10)	(GROSS MARGIN)
FIXED EXPENSES	\$41.19		
NET FARM INCOME		(\$80.29)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$24.51		
NET OPERATING PROFIT		(\$104.80)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$25.78		
RETURN TO LAND AND RISK		(\$130.58)	

TABLE 10. Summary of per acre costs and returns for a 600 acre farm, Arch Hurley Conservancy District, Quay County, Projected 2005.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	GRAIN SORGHUM	WHEAT
		TONS	CWT	BU
PRIMARY YIELD		4.50	50.00	20.00
PRIMARY PRICE		\$130.00	\$3.70	\$3.75
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00
SECOND INCOME		\$48.00	\$48.00	\$48.00
GROSS RETURN		\$633.00	\$232.82	\$123.00
CASH OPERATING EXPENSES				
SEED	\$55.28		\$8.61	\$14.40
FERTILIZER	\$30.60	\$18.60	\$38.20	\$38.20
CHEMICALS			\$15.07	\$15.07
CROP INSURANCE			\$0.22	\$0.29
OTHER PURCHASED INPUTS		\$19.37	\$0.08	\$0.05
CANAL WATER	\$3.00	\$18.00	\$15.00	\$12.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$10.66	\$29.90	\$24.16	\$21.49
FUEL-IRRIGATION	\$5.67	\$22.69	\$17.02	\$11.34
REPAIRS	\$3.87	\$7.99	\$8.43	\$7.00
CUSTOM CHARGES		\$0.00		
LAND TAXES		\$0.93	\$0.93	\$0.93
OTHER EXPENSES	\$0.02	\$42.24	\$42.24	\$42.24
TOTAL CASH EXPENSES	\$109.11	\$159.72	\$169.94	\$163.02
RETURN OVER CASH EXPENSES	-\$109.11	\$473.28	\$62.88	-\$40.02
FIXED EXPENSES	\$13.47	\$71.44	\$47.49	\$40.26
TOTAL EXPENSES	\$122.58	\$231.16	\$217.43	\$203.29
NET FARM INCOME	-\$122.58	\$401.84	\$15.39	-\$80.29
LABOR AND MANAGEMENT COSTS	\$19.37	\$81.85	\$45.57	\$24.51
NET OPERATING PROFIT	-\$141.95	\$319.98	-\$30.18	-\$104.80
CAPITAL COSTS				
INTEREST ON OPERATING CAPITAL		\$2.58	\$3.46	\$3.39
INTEREST ON EQUIPMENT INVESTMENT		\$29.19	\$25.91	\$22.39
TOTAL CAPITAL COSTS	\$0.00	\$31.78	\$29.37	\$25.78
RETURN TO LAND AND RISK	-\$141.95	\$288.21	-\$59.55	-\$130.58

TABLE 11. Whole farm summary, Arch Hurley Conservancy District, Quay County, Projected 2005.

GROSS RETURNS		
ALFALFA HAY	200.00 ACRES	
CROP		\$117,000
GRAZING		\$9,600
GRAIN SORGHUM	230.00 ACRES	
CROP		\$42,509
GRAZING		\$11,040
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
WHEAT	170.00 ACRES	
CROP		\$12,750
GRAZING		\$8,160
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GROSS RETURN		<u>\$201,059</u>
CASH OPERATING EXPENSES		
SEED		\$5,810
FERTILIZER		\$19,765
CHEMICALS		\$6,026
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$3,900
CANAL WATER		\$9,165
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$15,458
FUEL-IRRIGATION		\$10,522
REPAIRS		\$4,823
CUSTOM CHARGES		\$0
LAND TAXES		\$556
OTHER EXPENSES		\$25,347
TOTAL CASH EXPENSES		<u>\$101,473</u>
RETURN OVER CASH EXPENSES		\$99,586
FIXED EXPENSES		\$28,844
TOTAL EXPENSES		\$130,317
NET FARM INCOME		\$70,742
LABOR AND MANAGEMENT COSTS		\$31,503
NET OPERATING PROFIT		\$39,239
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$1,890
INTEREST ON EQUIPMENT INVESTMENT		\$15,605
TOTAL CAPITAL COSTS		<u>\$17,495</u>
RETURN TO LAND AND RISK		<u>\$21,745</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$200 /ACRE	\$18,145	13.77%
\$400 /ACRE	\$14,545	9.69%
\$600 /ACRE	\$10,945	7.48%
\$800 /ACRE	\$7,345	6.08%
\$1,000 /ACRE	\$3,745	5.13%
\$1,200 /ACRE	\$145	4.43%

\* RETURN TO LAND AND RISK MINUS (INTEREST RATE TIMES LAND VALUE TIMES ACREAGE)

\*\* NET OPERATING PROFIT DIVIDED BY (MACHINERY AND EQUIPMENT VALUE PLUS LAND VALUE)